

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/002664

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C01B33/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C01B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

PAJ, EPO-Internal, WPI Data, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 2002, no. 08, 5 August 2002 (2002-08-05) & JP 2002 114510 A (TOKUYAMA CORP), 16 April 2002 (2002-04-16) cited in the application abstract	1-13
A	EP 0 637 616 A (DEGUSSA) 8 February 1995 (1995-02-08) claim 2	1-13
A	EP 1 182 168 A (DEGUSSA) 27 February 2002 (2002-02-27) claims 1-4	1-13
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- *&* document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the International search report
12 May 2004	19/05/2004
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Arnotte, E

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 976 480 A (KLEINSCHMIT PETER ET AL) 2 November 1999 (1999-11-02) claims 1-3 -----	1-13

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/002664

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
JP 2002114510	A	16-04-2002	NONE		
EP 0637616	A	08-02-1995	US	6193795 B1	27-02-2001
			DE	69405337 D1	09-10-1997
			DE	69405337 T2	29-01-1998
			EP	0637616 A1	08-02-1995
			JP	3020082 B2	15-03-2000
			JP	7165980 A	27-06-1995
EP 1182168	A	27-02-2002	EP	1182167 A1	27-02-2002
			EP	1186573 A1	13-03-2002
			EP	1182168 A1	27-02-2002
			JP	2002145610 A	22-05-2002
			US	2002044903 A1	18-04-2002
US 5976480	A	02-11-1999	DE	19530339 A1	20-02-1997
			DE	59601291 D1	25-03-1999
			EP	0759410 A1	26-02-1997
			JP	3234160 B2	04-12-2001
			JP	9142829 A	03-06-1997
			KR	232438 B1	01-12-1999